

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior listing of claims in this application.

1. (Currently amended) A permanent magnet motor for driving a fan, comprising:

a rotor including a permanent magnet;

a stator including a stator core having a stator winding;

a bearing for rotatably supporting a rotary shaft of said rotor; and

a fan arranged on said rotor;

wherein the fan is rotated while preventing, by a magnetic attraction force of the permanent magnet and the stator core, said rotor moving in a direction of thrust of the rotary shaft with a rotation of said fan; and

wherein a surface magnetic flux density of the permanent magnet facing the stator core is lower at an end portion than at a central portion of the permanent magnet along the direction of thrust of the rotary shaft, and wherein the motor has an external rotor, the end portion in the direction of thrust of the rotary shaft constituting an inner peripheral portion of the permanent magnet is chamfered or curved in such a manner that the surface magnetic flux density of said permanent magnet facing said stator core is lower at the end portion than at the central portion of said permanent magnet along the direction of thrust of said rotary shaft.